

Rabbit anti-Human, Rat NANS Polyclonal Antibody | anti-NANS antibody

Anti-NANS Antibody Picoband

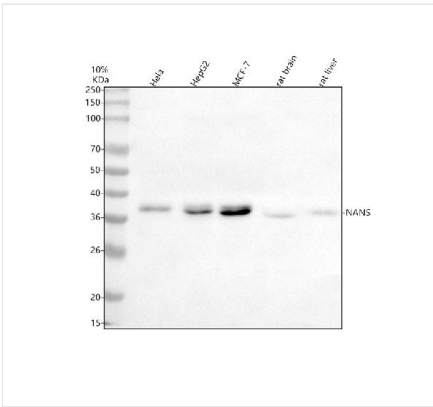
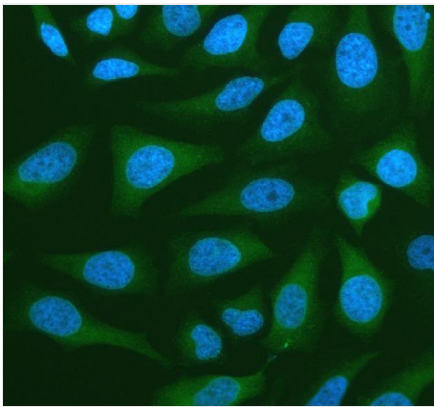
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128217	Rabbit	Human, Rat	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NANS; Polyclonal Antibody; Anti-NANS Antibody Picoband; Sialic acid synthase; N-acetylneuraminate synthase; SAS; EC 2.5.1.56; N-acetylneuraminate-9-phosphate synthase; EC 2.5.1.57; N-acetylneuraminic acid phosphate synthase; N-acetylneuraminic acid synthase; anti-NANS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NANS antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NANS recombinant protein (Position: M1-E341). Human NANS shares 96.2% amino acid (aa) sequence identity with mouse NANS.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 2. IF analysis of NANS using anti-NANS antibody (AAA128217).NANS was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 4ug/mL rabbit anti-NANS Antibody (AAA128217) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

WB (Western Blot)

Figure 1. Western blot analysis of NANS using anti-NANS antibody (AAA128217).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HeLa whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: rat brain tissue lysates,Lane 5: rat liver tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NANS antigen affinity purified polyclonal antibody (AAA128217) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NANS at approximately 38 kDa. The expected band size for NANS is at 40 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NANS antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NANS antibody	Primary Antibodies
References	1. Camera, G., Camera, A., Gatti, R. Sponastrime dysplasia: report on two siblings with mental retardation. <i>Pediat. Radiol.</i> 23: 611-614, 1993.2. Genevieve, D., Heron, D., El Ghouzzi, V., Prost-Squarcioni, C., Le Merrer, M., Jacquette, A., Sanlaville, D., Pinton, F., Villeneuve, N., Kalifa, G., Munnich, A., Cormier-Daire, V. Exclusion of the dymeclin and PAPSS2 genes in a novel form of spondyloepimetaphyseal dysplasia and mental retardation. <i>Europ. J. Hum. Genet.</i> 13: 541-546, 2005.3. Lawrence, S. M., Huddleston, K. A., Pitts, L. R., Nguyen, N., Lee, Y. C., Vann, W. F., Coleman, T. A., Betenbaugh, M. J. Cloning and expression of the human N-acetylneuraminic acid phosphate synthase gene with 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid biosynthetic ability. <i>J. Biol. Chem.</i> 275: 17869-17877, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	12056473
NCBI GeneID	54187
NCBI Accession #	NP_061819.2
NCBI GenBank Nucleotide #	NM_018946.3
UniProt Accession #	Q9NR45; Q8WUV9; Q9BWS6; Q9NVD4; B2RE98
Molecular Weight	40,308 Da
NCBI Official Full Name	sialic acid synthase

NCBI Official Synonym Full Names	N-acetylneuraminic acid synthase
NCBI Official Symbol	NANS
NCBI Official Synonym Symbols	SAS; HEL-S-100
NCBI Protein Information	sialic acid synthase; N-acetylneuraminate synthase; N-acetylneuraminate-9-phosphate synthase; N-acetylneuraminic acid phosphate synthase; epididymis secretory protein Li 100; sialic acid phosphate synthase
UniProt Protein Name	Sialic acid synthase
UniProt Gene Name	NANS
UniProt Synonym Gene Names	SAS
UniProt Entry Name	SIAS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/nans-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/128217>